

ABSTRACT OF THE DISCLOSURE

A radiation image read-out apparatus includes a radiation image convertor panel. A stimulating light projecting system projects stimulating light onto the radiation image convertor panel, and a sensor detects stimulated emission emitted from the radiation image convertor panel upon exposure to the stimulating light beam. The stimulating light projecting system projects, onto the radiation image convertor panel, stimulating light in a wavelength range where the rate of change of the intensity of the stimulated emission to a given change of the wavelength of the stimulating light is not larger than 1.0%/nm and is not smaller than -1.0%/nm.